	Application No.	Applicant(s)
Notice of Allowability	09/838,993	JENNINGS, CHARLES A.
	Examiner	Art Unit	
	Mehmet B. Geckil	2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/8/04 and Examiner's Amendment*.

2. ☒ The allowed claim(s) is/are *1-44,66-69,77-117,136,137 and 147*.

3. ☒ The drawings filed on *01 April 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *02222005* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

MEHMET B. GECKIL
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the issue fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Mr. James Stipek on 02/02/05.

Please amend the Claims as follows.

1.   (Currently Amended) A system for streaming media comprising:
a media switch configured to receive reservation data for a request for media and to receive a reservation identification, to process the reservation identification and the reservation data to determine if the reservation identification is valid, and, if valid, to stream at least partially the media for the request;
a routing processor configured to receive the reservation data, to determine if the media switch can stream media for the request, and to transmit the reservation data to the media switch if the media switch is able, at least initially, to stream media for the request; and
a management system configured to receive the request for media, to build a reservation having the reservation data and the reservation identification for the request, and to transmit the reservation data to the routing processor.

2.   (Currently Amended) The system of claim 1 wherein the request is generated from a viewer to the management system and wherein:

the management system further is configured to transmit the reservation, including the
    reservation identification, to the viewer; and

the media switch is configured to receive the reservation identification from the viewer
    for validation and, upon validation, to stream at least partially the media for the
    request to the viewer.

3.   (Original) The system of claim 2 wherein the viewer comprises a browser.

4.   (Original) The system of claim 2 wherein the viewer comprises a set top box.

5.   (Original) The system of claim 2 wherein the viewer comprises a media player
configured to play the media streamed from the media switch.

6.   (Original) The system of claim 1 further comprising a reservation system
configured to receive the request for media, to transmit the request to the management system,
and to receive the reservation from the management system in response thereto.

7.   (Original) The system of claim 6 wherein the reservation system comprises a web
reservation server.

8.   (Original) The system of claim 6 wherein the reservation system comprises a set
top reservation server.

9.   (Original) The system of claim 1 further comprising a service processor
configured to receive the media and to distribute the media to the media switch.

10.   (Currently Amended) The system of claim 1̶9 wherein the service processor
further is configured to receive the media and at least one media associated media rule and to
distribute the media to the media switch according to the media rule.

11.   (Original) The system of claim 1 further comprising a packet network through
which the media switch, the routing processor, and the management system communicate with
each other.

12.   (Original) The system of claim 1 further comprising a packet network through which the request for media is received by the management system and the reservation identification is received by the media switch.

13.   (Original) The system of claim 1 further comprising a packet network through which the reservation identification is received by the media switch.

14.   (Original) The system of claim 1 wherein the management system further is configured to transmit the reservation identification to a media requestor, and the media requestor further is configured to transmit the reservation identification to the media switch for validation.

15.   (Original) The system of claim 14 wherein the media requestor is a viewer.

16.   (Original) The system of claim 1 wherein the media switch, the routing processor, and the management system identify the media for the request using the reservation identification.

17.   (Original) The system of claim 1 wherein:
the media switch is configured to transmit at least one information block to the
        management system identifying the streamed media; and
the management system is configured to use the information block to create a detail
        record.

18.   (Original) The system of claim 1 wherein the media switch is configured to transmit a plurality of information blocks to the management system identifying the media streaming, each information block identifying the reservation identification for the media streaming.

19.   (Original) The system of claim 1 wherein the management system is configured to receive a plurality of information blocks identifying media streaming, each information block identifying the reservation identification for the media streaming, and to use the reservation

identification in each information block to create a detail record that represents collated data from each information block.

20.   (Original) The system of claim 1 further comprising a second media switch configured to stream the media for the request if the media switch fails.

21.   (Original) The system of claim 20 wherein the second media switch identifies the media for the request using the reservation identification.

22.   (Original) The system of claim 20 wherein the second media switch is configured to transmit a plurality of information blocks to the management system identifying the media streaming, each information block identifying the reservation identification for the media streaming.

23.   (Original) The system of claim 1 wherein the media comprises a media clip.

24.   (Original) The system of claim 1 wherein the media comprises a plurality of media clips.

25.   (Original) The system of claim 1 wherein the media comprises at least a portion of a media clip.

26.   (Original) The system of claim 1 wherein the media comprises a presentation.

27.   (Original) The system of claim 1 wherein the media comprises at least a portion of a presentation.

28. .   (Original) The system of claim 1 wherein the reservation identification comprises a reservation number.

29.   (Currently Amended) The system of claim 1 wherein the media switch has an address comprises comprising an internet protocol address.

30.   (Currently Amended) The system of claim 1 wherein the routing processor has an identification ~~comprises~~ comprising at least one member of a group comprising a host name and an internet protocol address.

31.   (Original) The system of claim 1 wherein the media switch is configured to communicate signaling with a viewer in-band.

32.   (Original) The system of claim 1 wherein the media switch is configured to communicate signaling with a viewer out-of-band.

33.   (Original) The system of claim 1 wherein the media switch is configured to communicate signaling with a viewer in-band and out-of-band.

34.   (Original) The system of claim 1 wherein the media switch records states for a reservation state model, the states comprising at least one member of a group comprising a setup for a session, a session tear down, and a viewing event, the state model identifying the reservation identification.

35.   (Original) The system of claim 34 wherein the session comprises at least one member of a group comprising an internet protocol session and a broadband connection.

36.   (Original) The system of claim 1 wherein the routing processor records states for a reservation state model, the states comprising at least one member of a group comprising a session initiation, a session termination, and an identification of the media switch streaming the media, the state model identifying the reservation identification.

37.   (Original) The system of claim 36 wherein the session comprises at least one member of a group comprising an internet protocol session and a broadband connection.

38.   (Original) The system of claim 1 wherein the management system further is configured to collect statistical information.

39.   (Currently Amended) The system of claim 38 further comprising a reservation server configured to gather the statistical information and wherein the management system is

configured to instruct the reservation server to gather the statistical information, and to receive the statistical information via the reservation server.

40.   (Currently Amended) The system of claim, 38 wherein the management system further is configured to dynamically generate an identification of media to be generated with the requested media based upon the statistical information.

41.   (Original) The system of claim 1 wherein the routing processor uses a domain name system protocol to communicate with a viewer.

42.   (Original) The system of claim 1 wherein the media switch comprises a stream routing processor configured to process signaling received from the routing processor.

43.   (Original) The system of claim 1 wherein the media switch comprises a stream caster configured to stream the media.

44.   (Currently Amended) The system of claim 1 wherein the media switch comprises a stream caster configured to process in-band signaling.

45.   (Cancelled)

46.   (Cancelled)

47.   (Cancelled)

48.   (Cancelled)

49.   (Cancelled)

50.   (Cancelled)

51.   (Cancelled)

52.   (Cancelled)

53.   (Cancelled)

54.   (Cancelled)

55.   (Cancelled)

56.   (Cancelled)

57.   (Cancelled)

58.   (Cancelled)

59.   (Cancelled)

60.   (Cancelled)

61.   (Cancelled)

62.   (Cancelled)

63.   (Cancelled)

64.   (Cancelled)

65.   (Cancelled)

66.   (Currently Amended) A system for streaming media to a viewer for a request for
media comprising:

> a management system configured to receive a request for media, to identify a presentation
>> having the requested media, to build a reservation for the request having a
>> presentation identification, a processor identification ~~that~~ to which the viewer can
>> ~~call~~ transmit, and a reservation identification, to transmit the reservation ~~to~~for
>> reception by the viewer, and to transmit reservation data for the request having the
>> reservation identification and the presentation identification;
> a routing processor configured to receive the reservation data from the management
>> system, to receive ~~for the processor identification~~ the reservation identification
>> from the viewer for the processor identification, to process the reservation data to
>> determine if the presentation is configured to be streamed, to validate the

reservation identification received from the viewer with the reservation data, and,
if the presentation is configured to be streamed and if the reservation
identification is validated, to transmit an address ~~to~~ for reception by the viewer
and to transmit the reservation data; and

a media switch configured to receive the reservation data from the routing processor, to
receive ~~from the viewer at the address~~ the reservation identification and the
presentation identification from the viewer at the address, to process the
reservation identification with the reservation data to validate the reservation
identification, and, if valid, to stream at least partially media for the presentation
~~to~~ for reception by the viewer.

67.   (Currently Amended) A system for streaming media from a communication
device to a viewer for a request for media comprising:

a routing processor configured to receive ~~at a routing processor identification~~ a
reservation identification for the viewer at a routing processor identification, to
receive reservation data comprising a valid reservation identification and a media
identification for the requested media, to use the media identification to determine
if the communication device is configured to stream the media having the media
identification, and, if so configured, to transmit the reservation data to the
communication device; and

a management system configured to receive the request for media, to determine the
routing processor that can determine if the communication device is configured to
stream the media, to build a reservation comprising the reservation identification,
the routing processor identification, and the media identification, to transmit the
reservation ~~to~~ for reception by the viewer, and to transmit the reservation data to
the routing processor.

68.   (Currently Amended) A system for streaming media to a viewer for a request for
media comprising:

a media switch configured to receive ~~from the viewer at a media switch address~~ a
reservation identification and a media identification from the viewer at a media

switch address, to receive reservation data comprising a valid reservation identification, to validate the reservation identification using the valid reservation identification, and, if validated, to stream ~~to the viewer~~ at least some of the media identified by the media identification <u>for reception by the viewer</u>; and

a routing processor configured to receive a reservation identification for the viewer, to receive reservation data comprising a valid reservation identification and a media identification for the requested media, to use the media identification to determine if the media switch is configured to stream the media having the media identification, and, if so configured, to transmit the reservation data to the media switch and to transmit the media switch address to the viewer.

69.   (Currently Amended) A system for streaming media to a viewer for a request for media comprising:

a media switch configured to receive ~~from the viewer~~ a reservation identification and a media identification <u>from the viewer</u>, to stream ~~to the viewer~~ at least some of the media identified by the media identification <u>for reception by the viewer</u> if the reservation identification is validated, and to transmit at least one streaming information block identifying at least one major state, wherein the streaming information block comprises the reservation identification; and

a management system configured to receive the request for media, to generate the reservation identification used by the media switch, to receive the ~~signaling~~ <u>streaming information</u> block, and to processes the ~~signaling~~ <u>streaming information</u> block using the reservation identification to create a detail record.

70.   (Cancelled)

71.   (Cancelled)

72.   (Cancelled)

73.   (Cancelled)

74.   (Cancelled)

75.   (Cancelled)

76.   (Cancelled)

77.   (Currently Amended) A method for streaming media comprising:

receiving a request for media and building in response thereto a reservation having a
        reservation identification for the request;

receiving, at a routing processor identification, reservation data comprising a valid
        reservation identification and a media identification and determining if a media
        switch is configured to stream media for the request;

transmitting the reservation data to the media switch if the media switch is configured, at
        least initially, to stream media for the request;

receiving a the reservation identification at the media switch;

processing the reservation identification and the reservation data to determine if the
        reservation identification is valid; and

streaming at least partially the media for the request if the reservation identification is
        valid.

78.   (Currently Amended) The method of claim 77 wherein the request is generated
from a viewer, the method further comprising:

transmitting the reservation, including the reservation identification, to the viewer; and

receiving at the media switch the reservation identification at the media switch from the
        viewer for validation and, upon validation, streaming at least partially the media
        for the request to the viewer.

79.   (Currently Amended) The method of claim 78 wherein streaming the media to
the viewer comprises streaming the media to a browser.

80.   (Currently Amended) The method of claim 78 wherein streaming the media to
the viewer comprises streaming the media to a set top box.

81.   (Currently Amended) The method of claim 78 wherein streaming the media to the viewer comprises streaming the media to a media player configured to play the media streamed from the media switch.

82.   (Original) The method of claim 77 further comprising:

receiving the request for media at a reservation server;

transmitting the request to a management system to build the reservation; and

receiving the reservation from the management system in response thereto.

83.   (Currently Amended) The method of claim 82 wherein receiving the request for media at the reservation system comprises receiving the request for media at a web reservation server.

84.   (Currently Amended) The method of claim 82 wherein receiving the request for media at the reservation system comprises receiving the request for media at a set top reservation server.

85.   (Original) The method of claim 77 further comprising receiving the media at a service processor and distributing the media to the media switch.

86.   (Currently Amended) The method of claim 77 further comprising receiving the media at a service processor and at least one media associated media rule at a service processor and distributing the media to the media switch according to the media rule.

87.   (Original) The method of claim 77 further comprising transmitting signaling through a packet network.

88.   (Original) The method of claim 77 further comprising receiving the request for media through a packet network.

89.   (Currently Amended) The method of claim 77 further comprising receiving the reservation identification through a packet network a packet network.

90.   (Original) The method of claim 77 further comprising transmitting the reservation identification to a media requestor, and transmitting the reservation identification from the media requestor to the media switch for validation.

91.   (Currently Amended) The method of claim 90 wherein transmitting the reservation identification to the media requestor comprises transmitting the media requestor to ~~the media requestor is~~ a viewer, and transmitting the reservation identification from the media requestor comprises transmitting the reservation identification from the viewer.

92.   (Original) The method of claim 77 further comprising identifying the media for the request using the reservation identification.

93.   (Original) The method of claim 77 further comprising:
transmitting from the media switch at least one information block identifying the
        streamed media; and
using the information block to create a detail record.

94.   (Original) The method of claim 77 further comprising transmitting from the media switch a plurality of information blocks identifying the media streaming, each information block identifying the reservation identification for the media streaming.

95.   (Currently Amended) The method of claim 77 further comprising receiving a plurality of information blocks identifying the media streaming, each information block identifying the reservation identification for the media streaming, and using the reservation identification in each information block to create a detail record that represents collated data from each information block.

96.   (Original) The method of claim 77 further comprising streaming media from a second media switch if the media switch fails.

97.   (Original) The method of claim 96 wherein the second media switch identifies the media for the request using the reservation identification.

98.   (Original) The method of claim 96 further comprising transmitting from the second media switch a plurality of information blocks identifying the media streaming, each information block identifying the reservation identification for the media streaming.

99.   (Currently Amended) The method of claim 77 wherein streaming at least partially the media comprises streaming at least partially a media clip.

100.   (Currently Amended) The method of claim 77 wherein streaming at least partially the media comprises streaming at least partially a plurality of media clips.

101.   (Currently Amended) The method of claim 77 wherein streaming at least partially the media comprises streaming at least partially at least a portion of a media clip.

102.   (Currently Amended) The method of claim 77 wherein streaming at least partially the media comprises streaming at least partially a presentation.

103.   (Currently Amended) The method of claim 77 wherein streaming at least partially the media comprises streaming at least partially at least a portion of a presentation.

104.   (Currently Amended) The method of claim 77 wherein building the reservation with the reservation identification comprises building the reservation with a reservation number.

105.   (Original) The method of claim 77 further comprising communicating signaling between the media switch and a viewer in-band.

106.   (Original) The method of claim 77 further comprising communicating signaling between the media switch and a viewer out-of-band.

107.   (Original) The method of claim 77 further comprising communicating signaling between the media switch and a viewer in-band and out-of-band.

108.   (Currently Amended) The method of claim 77 further comprising recording ~~by the media switch~~ states for a reservation state model by the media switch, the states comprising at least one member of a group comprising a setup for a session, a session tear down, and a session viewing event, the state model identifying the reservation identification.

109.   (Currently Amended) The method of claim 108 wherein <u>recording states for</u> the session comprises comprising <u>recording states for</u> at least one member of a group an internet protocol session and a broadband connection.

110.   (Currently Amended) The method of claim 77 further comprising recording ~~by the routing processor~~ states for a reservation state model <u>by the routing processor</u>, the states comprising at least one member of a group comprising a session initiation, a session termination, and an identification of the media switch streaming the media <u>for the session</u>, the state model identifying the reservation identification.

111.   (Currently Amended) The method of claim 110 wherein <u>recording states for</u> the session comprises <u>recording states for</u> at least one member of a group comprising an internet protocol session and a broadband connection.

112.   (Original) The method of claim 77 further comprising collecting statistical information.

113.   (Original) The method of claim 112 further comprising gathering the statistical information at a reservation server.

114.   (Original) The method of claim 112 further comprising dynamically generating an identification of media to be generated with the requested media based upon the statistical information.

115.   (Currently Amended) The method of claim 77 wherein the <u>routing processor identification is for a</u> routing processor<u>, the method further comprising</u> ~~uses~~ <u>using</u> a domain name system protocol to communicate ~~with~~ <u>between the routing processor and</u> ~~the~~ <u>a</u> viewer.

116.   (Original) The method of claim 77 further comprising streaming media from the media switch using a stream caster.

117.   (Currently Amended) The method of claim 116 <u>further comprising</u> ~~wherein the stream caster is configured to~~ process<u>ing</u> in-band signaling <u>at the stream caster</u>.

118.   (Cancelled)

119.   (Cancelled)

120.   (Cancelled)

121.   (Cancelled)

122.   (Cancelled)

123.   (Cancelled)

124.   (Cancelled)

125.   (Cancelled)

126.   (Cancelled)

127.   (Cancelled)

128.   (Cancelled)

129.   (Cancelled)

130.   (Cancelled)

131.   (Cancelled)

132.   (Cancelled)

133.   (Cancelled)

134.   (Cancelled)

135.   (Cancelled)

136.   (Currently Amended) A method for streaming media for a viewer comprising:
receiving a request for media and building in response thereto a reservation having a
reservation identification and a media identification;

transmitting reservation data comprising a valid reservation identification and the media

identification to a routing processor and transmitting the reservation formatted for

reception by the viewer;

receiving the reservation data at the routing processor and determining if a media switch

is configured to stream media identified by the media identification;

transmitting the reservation data to the media switch if the media switch is configured, at

least initially, to stream media for the request;

receiving a the reservation identification and ~~receiving from the routing processor~~ the

reservation data at the media switch;

processing the reservation identification and the reservation data to determine if the

reservation identification is valid; and

streaming at least partially the media identified by the media identification if the

reservation identification is valid.

137.   (Currently Amended) A method for streaming media for a viewer comprising:

processing a request for media and building in response thereto a reservation having a

reservation identification and a media play list comprising a plurality of media

names;

transmitting reservation data comprising a valid reservation identification and the media

play list to a routing processor and transmitting the reservation formatted for

reception by the viewer;

for each media name on the play list, determining if a media switch is configured to

stream media identified by the media name;

for each media name on the play list, transmitting the reservation data to the media switch

if the media switch is configured, at least initially, to stream media for the media

name;

processing the reservation identification and the reservation data at the media switch to

determine if the reservation identification is valid; and

streaming at least partially the media identified by at least one of the media names if the

reservation identification is valid.

138.   (Cancelled)

139.   (Cancelled)

140.   (Cancelled)

141.   (Cancelled)

142.   (Cancelled)

143.   (Cancelled)

144.   (Cancelled)

145.   (Cancelled)

146.   (Cancelled)

147.   (Original) A method for streaming media comprising:

receiving a request for media and building in response thereto a reservation having a
        reservation identification for the request;

receiving reservation data comprising a valid reservation identification and a media
        identification at a routing processor and determining if a media switch is
        configured to stream media for the request;

transmitting the reservation data to the media switch if the media switch is configured, at
        least initially, to stream media for the request;

validating the reservation identification using the valid reservation identification; and

streaming the media for the request simultaneously in a plurality of parallel sessions.

REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance:

Claims *1-44,66-69,77-117,136,137 and 147* are allowed because the prior art did not teach or

reasonably suggest a method and system for streaming media comprising a media switch; a

routing processor and a management system as claimed in exemplary claim 1 utilizing

reservation identification; reservation data and validation features as claimed in claim 1 as well

as in various other claims.

Any comments considered necessary by applicant must be submitted no later than the

payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the

Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Mehmet Geckil whose telephone number is (571) 272-3894. The
examiner can normally be reached on Monday through Friday from 6:30 A.M. to 3:00 P.M..
If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor Jack Harvey, can be reached on (571) 272-3896.

The fax phone number for the organization where this application or proceeding is assigned is
(703) 872-9306. Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the receptionist whose telephone number is **(703) 305-
3800/4700.**

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/3/05

MEHMET B. GECKIL
PRIMARY EXAMINER